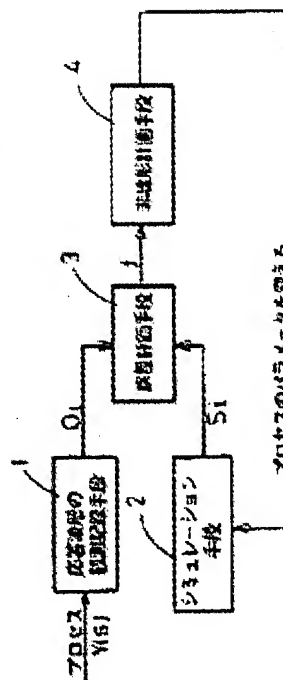


IDENTIFYING METHOD FOR FEEDBACK SYSTEM**Publication number:** JP63279301**Publication date:** 1988-11-16**Inventor:** WATANABE MASAHIRO; YAMAMOTO SHIGEHICO**Applicant:** YOKOGAWA ELECTRIC CORP**Classification:****- international:** *G05B13/00; G05B13/02; G05B13/00; G05B13/02;*
(IPC1-7): G05B13/00**- European:****Application number:** JP19870115092 19870512**Priority number(s):** JP19870115092 19870512[Report a data error here](#)**Abstract of JP63279301**

PURPOSE: To identify a feedback system in its closed loop state by converting the deviation between an output answer waveform of a process and an answer waveform received from a simulating function into a function of evaluation and changing the parameter of the simulating function by a nonlinear programming to define the parameter having the minimum function of evaluation as an estimated parameter. **CONSTITUTION:** The output answer waveform of a feedback system is observed and compared with an answer waveform received from a simulation means 2 of a process whose parameter is set under the initial conditions. The deviation of answer between both waveforms is converted into a function of evaluation and the parameter of the function 2 is changed by a nonlinear programming means 4. Thus a parameter having the minimum function of evaluation is obtained and defined as an estimated parameter of the process. In such a way, the process can be accurately carried out in its closed loop state. Then it is possible to identify a real plant without setting it under a dangerous state of an open loop.

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